

An Essay
on the
Sequelæ of the late Intermittent Epidemic
as they appeared
in
the counties of Chester, Delaware and Montgomery
by
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of
Pennsylvania
Member of the Philadelphia Medical Society

November the 6th 1824

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On the Sequela of the Intermittent Epidemic, as they appeared in the practice of my preceptor in the countries of Chester, Delaware, and Montgomery.

It may not be improper to premise my remarks upon this subject by a short history of the origin, nature, and treatment of the epidemic itself.

It made its first appearance in the Autumn of 1820 on the banks of the Schuylkill, a few miles above Norristown, from which it spread in almost every direction attacking indiscriminately persons of every age, colour, and sex.

It generally assumed the characteristics of a regular Intermittent fever so accurately defined by Dr. Cullen, but sometimes put on a very deceptive appearance, sometimes affecting parts of the body only, as the eyes, head, limbs, &c., being affected. Urticariae also, frequently attended the paroxysms.

The Quotidian and Tertian intervals were much the more frequent and tractable, the Quartan
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dams, and stagnant pools. But this is not the fact. Cases have occurred in every season, and in every situation. Intermittents were very prevalent in the Spring and Autumn of 1825, when the thermometer was fluctuating between 50 and 70 degrees a temperature far below that at which eruptions arise. They have occurred in every winter month and this year were confined almost exclusively to elevated situations.

But that Intermittents do appear more frequently in seasons of drought and in the neighbourhood of dams and stagnant pools by the concomitant agency of Marsh Miasma, there can be no doubt. Hence I infer that Marsh Miasma is not the predisposing but an exciting cause. The predisposing cause with the nature of which we are wholly unacquainted is present throughout the whole epidemic year is capable of being excited into action in all seasons, and under every circumstance, independantly of Marsh Miasma. The various other exciting causes, are
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inclement weather, damp rooms, night air, muggy dews;
but of these Marsh Miasma is decidedly the most
active.

It is not my design to detail minutely the treatment
of the epidemic, but to pass on to the diseases which
followed it. I will briefly remark, however that after
the system was duly prepared by emetics, cathartics,
sweatation, &c, &c, the following remedies were successful in
the order in which they are related: The sulphate
of quinine, the extract of quinine, the essential
salt of bark, bark in substance either alone or in com-
bination with opium, with salt of tartar and ses-
santia, with aromatics, or with shubarb, pome-
granate in pills or solution, opium, alone, opuntia per-
foliata, pollen of hops, sulphur, charcoal, blue
vitriol, turpentine; ~~also~~ in combination with
opium; hira pica, spiders web, logwood bark and
blossoms, red oak, american poplar, and other
indigenous articles.

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ted a number of permanent cures, after various other remedies had been tried with the result of merely suspending the disease.

Mr R —, having had such repeated attacks of the epidemic in the last two years, had become so debilitated, that the attending physician was apprehensive his system would never recover its accustomed vigour. Yet the shock he sustained on being called to see a neighbour that had cut his throat, permanently removed his disease.

Mr R —, had a tertian fever regularly for about two months, without being able to remove it by any of the usual remedies. Feeling pretty well during the intermission he concluded to take a ride on horseback; and on the way was attacked with a paroxysm which debilitated him very much, the horse being spirited and restive now, at full gallop about two miles, he was much affrighted and so effectually cured, that he has never had another paroxysm, although it is now two years since he —

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Mr H —, had long been afflicted with the prevailing epidemic: while riding through the Schuylkill on horseback previous to the accession of the paroxysm, his horse stumbled and plunged him over his head into the river. Although very much shocked he was able to reach the shore without assistance, and had the gratification to find that his paroxysm was prevented, and his disease more mitigated him.

A number of other curious cases might be related such as a cure being effected by being upset in a boat, by breaking through the ice &c, &c.

In the cases of infants and delicate adults or when there was ^{great} irritability of stomach, back enemata, back cataplasms, and back jackets were of the utmost importance.

Deaths very rarely occurred, and only in patients whose constitutions were undermined by intemperance or previous disease.

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Persons having recovered from an attack of our epidemic were very prone to relapse; the best preventives of which were, to avoid the exciting causes, as far as possible, to keep the bowels daily open, and above all to wear flannel next the skin: of the utility of which in the prevention of fevers we have the concurring opinions of many eminent practitioners confirmed by experimental observation.

The Sequela of Epidemic.

Indyer in his fourth dissertation on fever, remarks, that a regular Quartan intermittent is more apt to subject patients to diseases arising out of itself, than a Tertian and a Tertian more than a Quotidian. This, however, did not appear to be the case, as regards our epidemic. The Quotidian Tertian and Quartan were alike productive of morbid Sequela; which may be divided into primary and secondary. The primary, were, intumescences of the liver and spleen, debility, inflammation of the lungs, catarrh

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ment of the abdomen, and constipation. The secondary sequelae a result of the primary were dyspepsia, dropsy, jaundice, diarrhoea, and dysentery. There were no instances of mania, of rachitis, &c., the result of former epidemics*.

Indurations of the liver and spleen have been improperly attributed to the use of the Peruvian bark, from its acting specifically and without any sensible evacuation. They are no doubt induced by the inordinate quantity of blood which is propelled from the capillaries into the large intestinal vessels, during the paroxysm, producing inflammation and subsequent induration.

The characteristics of induration of the liver, were, tumefaction, and hardness of that viscus accompanied with an obtuse pain in the right hypochondriac region, which was increased by pressure, bowels constipated, faces pale, The pulse was full, sometimes, hard and corded.

Induration

* See Sydenham on the Interic of 1661-2-3-4

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Inflammation of the spleen had nearly the same characteristics; The pain and tumefaction, however, being on the opposite side.

The remedies most efficacious in either case divided themselves into general and topical; the former, were venesection, mercurial purgatives, and if the cases proved obstinate mercury, and nitric acid to produce ptysism were found successful remedies. The topical remedies were blisters, cups, leeches, Nitro Muriatic acid bath &c.

Debility was a very frequent effect of our epidemic and demanded our immediate attention. The remedies most effectual in restoring the system to its wonted vigour, were, the vegetable bitters the cinchona, mineral acids, chalybeates, moderate exercise in the open air and the cold bath. The diet should be nutritive and moderately stimulating.

Inflammation of the lungs, was another consequence of our epidemic. It occurred chiefly in persons naturally predisposed to pulmonary affections. The in-
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ordinate determination of blood to these organs during the paroxysm was no doubt the cause of its production. The symptoms which attended it, were cough with expectoration during the intermission, dyspnea and cough without expectoration during the paroxysm, with a sense of constriction about the chest. The pulse was full, ^{regularly} sometimes eroded.

The remedies adopted to the removal of this disease, were topical depletion by cups, leeches, blisters; diaphoretics, expectorants &c, &c. Phtisis pulmonalis will in a few instances, probably, be the result. M^r K—, in the Autumn of 1822 was attacked by an intermittent with a quotidian interval, which as well as subseguent relapses yielded to the use of the Peruvian bark. In the Autumn of 1823 he was again attacked, being much exposed to the evening and morning damps which has left him labouring under a cough gradually increasing, unabated by all the remedies he has tried, either popular or those administered under medical ad-
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vice. The symptoms are such, as would lead to the opinion that it will finally terminate in confirmed Phtisis Pulmonalis, and death.

In some cases the bladder was enormously enlarged, resembling a bladder in appearance: yet by the most critical examination the presence of water could not be detected. To what this tumefaction was owing I am unable to give any satisfactory solution. The disorder yielded, however, in every instance, to cathartic medicines.

Constipation was by far the most frequent result of our epidemic. It was probably owing to a decreased secretion of bile, the faces being of a greyish colour. It was in most instances very readily removed by the following prescription.

Ry Rad: Rhei Pulv: ℥ij

Moss ----- ℥j

Sub. Acut. Sgd: ℥ss Misra

Divide into sixty pills, one or two of which were taken at bed time according to circumstances.

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Several well characterized cases of dyspepsia appeared during the prevalence of our epidemic as a consequence of it; a disease which has not, I believe, been noticed as a result of former intermittent epidemics: one of the most interesting of which is the following, Miss B—, aged 34, had an attack of intermittent fever in the Autumn of 1820 and subsequently in the Autumns of 1822 & 3 with repeated relapses. In the Summer of 1824 she was again attacked which proved much more obstinate, and was accompanied with nausea, irritability of stomach and loss of appetite: the Intermittent was, however, removed by the sulphate of quinine, preceded by cathartics, but dyspepsia remained as a consequence. There was great irritability of stomach and an almost incredible discharge of mucus from that viscus, which gradually increased rather than diminished by the use of the usual remedies for such affections until every hope of her recovery had vanished and she was apparently on the very brink of the grave. The
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infusion of mustard was then resorted to as a palliative. Its effects were astonishing. On the following morning the discharge was decreased about one half, and continued to diminish daily for about three weeks, when it entirely ceased during which time her appetite slowly improved, her strength increased and after about two months, she was in the enjoyment of health, which has continued to the present time.

Dropsies were a frequent result of former intermittents, but in the present epidemic, in the practice of my preceptor, one case only occurred.

Dropsies may be either a consequence of visceral obstructions or of debility. The case above mentioned in which anasarca and ascites were combined, was the result of the latter. The abdomen and limbs of the patient were very much enlarged, the fluctuation of water was evident accompanied with costiveness, great debility and

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epidemic and occasionally followed it. In the former case it was found good practice, to combine cinchona or sulphate of quinine with laudanum, and powder of galls or kino, &c. In the latter powder of galls and cinnamon with weak brandy, &c. had the happiest effect, Tincture of Rhubarb and laudanum was also found salutary. The vegetable bitters were administered at the same time.

During the Autumn of 1823, the dysentery followed in a number of cases our epidemic, and in others was blended with it. It became a subject of deliberation, with my preceptor, whether in the exhibition of his remedies he should have an eye to both diseases or direct his whole force exclusively at one. A few days observation, however, ~~convinced~~ ^{persuaded} him that the affection of the bowels only demanded his attention; as in every case. The Intermittent fever gave place to the dysentery; which I consider a strong argument in favour of cathartics
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edies in the treatment of our epidemic. In the year 1822, sugar of lead, was administered in combination with Ipecacuanha and opium with the happiest effect in this disease but in 1823, the cases assuming a typhoid character, it was found rather prejudicial than salutary. Ipecacuanha and opium were however, exhibited with great advantage, the prime via being first cleansed by mild laxatives. Oleaginous mixtures, pectoral emulsi, mucilaginous drinks, epispastics &c. were used as auxiliaries, to the no small relief of the suffering patients. In 1824, the cases were highly inflammatory, admitting of the free use of the lancet. The saccharum saturni was not again resorted to.

Permit me to conclude this essay, by presenting to the professors of the medical department of the University of Pennsylvania my warmest acknowledgements for the valuable instructions, I have received from their lectures and my sincerest wishes for their individual happiness & felicity.

